

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application. Applicant has submitted a new complete claim set showing any marked up claims with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing.

**Listing of Claims:**

1. (Currently Amended) A method for dynamically updating a collection of information in a database including a plurality of pre-existing clusters of information for publication comprising:
  - a) extracting from received information a set of characterizing features which characterize the received information;
  - b) updating the collection of information by grouping the received information with one or more pre-existing clusters in the collection that have characterizing features in common with the received information and grouping together a plurality of pre-existing clusters having common characteristics to produce a neighborhood of clusters; and
  - c) publishing at least a portion of the updated collection of information based on a customer request for information.
2. (Previously Presented) The method of claim 1 wherein the received information comprises a combination of one or more of text data, image data, and video data.
3. (Original) The method of claim 1 wherein said received information comprises multiple features of a given type and wherein the multiple features are ranked in importance as the features are extracted.

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4. (Original) The method of claim 3 wherein a cluster includes a summarization of cluster features and additionally comprising comparing the features that summarize newly received information with features summarized in a cluster by taking an inner product of the features common to the newly received information and the features that summarize said cluster and combining the newly received information with a cluster if the inner product exceeds a threshold.
5. (Previously Presented) The method of claim 3 wherein a number of features of rank of a newly received item of information are compared with a corresponding number of features of a cluster to determine if said information is added to a cluster.
6. (Previously Presented) The method of claim 5 wherein each feature has a relevancy factor by which the feature is scaled and additionally determining if a cluster and the newly received information have at least a number of common features having non-zero relevancy factors before adding the received information into a cluster.
7. (Canceled)
8. (Currently Amended) The method of claim ~~7~~1 wherein the received information is a text containing document and a relevancy of a neighborhood is used to determine whether to publish documents in a neighborhood to a customer.
9. (Original) The method of claim 8 wherein the relevancy varies depending on how long the document has been assigned to the neighborhood.
10. (Original) The method of claim 8 wherein the relevancy varies with information

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contained in the request for information.

11. (Currently Amended) The method of claim 71 wherein an item of received information is grouped into more than one cluster but published with only one neighborhood.

12. (Original) The method of claim 11 additionally comprising maintaining a null neighborhood and adding received information to the null neighborhood when said information is initially received.

13. (Original) The method of claim 11 additionally comprising maintaining a null neighborhood and adding received information to the null neighborhood when contents of a neighborhood change due to a reconstituting of said neighborhood.

14. (Original) The method of claim 11 additionally comprising maintaining a null neighborhood and adding received information to the null neighborhood when a neighborhood to which the received information becomes non-relevant.

15 - 28. (Canceled)

29. (Currently Amended) A computer readable storage medium containing instructions for executing a method for dynamically updating a collection of information in a database including a plurality of pre-existing clusters of information for publication, the method comprising:

a) extracting from received information a set of characterizing features which characterize the received information;

b) updating the collection of information by grouping the received information with one or more pre-existing clusters in the collection that have characterizing features in common with

the received information and grouping together a plurality of pre-existing clusters having common characteristics to produce a neighborhood of clusters; and

c) publishing at least a portion of the updated collection of information based on a customer request for information.

30. (Previously Presented) The computer readable storage medium of claim 29 wherein the received information comprises a combination of one or more of text data, image data, and video data.

31. (Previously Presented) The computer readable storage medium of claim 29 wherein said received information comprises multiple features of a given type and wherein the multiple features are ranked in importance as the features are extracted.

32. (Previously Presented) The computer readable storage medium of claim 31 wherein a cluster includes a summarization of cluster features and additionally comprising comparing the features that summarize newly received information with features summarized in a cluster by taking an inner product of the features common to the newly received information and the features that summarize said cluster and combining the newly received information with a cluster if the inner product exceeds a threshold.

33. (Previously Presented) The computer readable storage medium of claim 31 wherein a number of features of rank of a newly received item of information are compared with a corresponding number of features of a cluster to determine if said information is added to a cluster.

34. (Previously Presented) The computer readable storage medium of claim 33 wherein each

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feature has a relevancy factor by which the feature is scaled and additionally determining if a cluster and the newly received information have at least a number of common features having non-zero relevancy factors before adding the received information into a cluster.

35. (Canceled)

36. (Currently Amended) The computer readable storage medium of claim ~~35~~29 wherein a relevancy of a neighborhood is used to determine whether to publish documents in a neighborhood to a customer.

37. (Previously Presented) The computer readable storage medium of claim 36 wherein the relevancy varies with how long the document has been in the neighborhood.

38. (Previously Presented) The computer readable storage medium of claim 36 wherein the relevancy varies with information contained in a request for information.

39. (Currently Amended) The computer readable storage medium of claim ~~35~~29 additionally comprising maintaining a null neighborhood and adding received information to the null neighborhood when said information is initially received.

40. (Currently Amended) The computer readable storage medium of claim ~~35~~29 additionally comprising maintaining a null neighborhood and adding received information to the null neighborhood when contents of a neighborhood change due to a reconstituting of said neighborhood.

41. (Currently Amended) The computer readable storage medium of claim ~~35~~29 additionally

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comprising maintaining a null neighborhood and adding received information to the null neighborhood when a neighborhood to which the received information becomes non-relevant.

42. (Previously Presented) The method of claim 1 further comprising updating the collection of information by forming a new cluster containing the received information if there are no pre-existing clusters in the collection that have characterizing features in common with the received information.

43. (Previously Presented) The computer readable storage medium of claim 29 further comprising updating the collection of information by forming a new cluster containing the received information if there are no pre-existing clusters in the collection that have characterizing features in common with the received information.

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